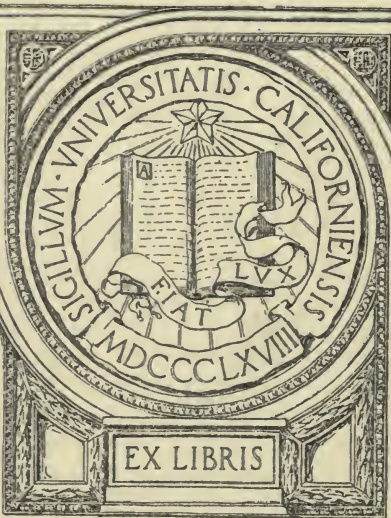


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done with some of the water works near San Francisco; or of the Seattle pipe, the cost would be reduced to eight to twenty cents per foot. These pipes, however, do not withstand great pressure, do not last long, and at first give a bad taste to the water.

Gentlemen, anything further that I can do in this matter, I will, gladly.

I have endeavored not to worry you with details, although I have them arranged in my own mind.

With great respect,

I am yours,

FRANK SOULÉ, JR.,

Prof. of Eng.

REPORT
ON THE
WATER SUPPLY
OF THE
University of California.

$\frac{2}{1877}$



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UNIVERSITY OF CALIFORNIA

REPORT OF THE SPECIAL COMMITTEE ON WATER SUPPLY, ETC.

To the Regents of the

University of California:

The Committee to whom it was referred to inquire and report what springs of water are available and needed for the supply of the University grounds at Berkeley, and to further report the location and quantity of the lands necessary or desirable to condemn in order to secure for the uses of the University the water from the said springs, respectfully report:

That they have personally and carefully examined and inspected all those springs in the vicinity of the University grounds, and within the limits prescribed by the Act of the Legislature in that behalf, which appear to be desirable and available for supplying the said grounds with the quantity of water necessarily required for the uses of the University and have procured to be surveyed and staked out the smallest amount in area of land containing the said springs which will suffice to secure them, together with such connecting strips of land, ten feet wide, as are necessary to unite said spring lands

to the University grounds and serve to contain the pipes requisite to convey the water from said springs to the University grounds.

And your Committee further report that they have caused an accurate map or diagram of said spring lands and said connecting strips to be made giving in detail, designated by red lines and figures the location, size, shape and quantity of said spring lands and of said connecting strips; of which said map or diagram, a substantially correct copy, though reduced in size, is hereto appended, marked Exhibit A, and made a part of this report.

Your Committee further report that it would be difficult to describe herein with any degree of practical distinctness the precise condition, character and probable value of the lands so surveyed, and proposed by them to be condemned for the purposes aforesaid, although they do not think the cost of such condemnation ought to exceed the sum of seven thousand five hundred dollars, if, indeed it does not fall considerably short of that amount.

Your Committee further report that the said lands so proposed to be condemned embrace two distinct sets or groups of springs with their connecting strips of land as aforesaid; the one of which groups lies to the North, and the other to the East of the University grounds. The group on the North comprises what are known as the Heywood Springs, a claim to the ownership of which is asserted by the Regents of the University under certain deeds of conveyance. While that on the East embraces the springs which feed the Strawberry Creek and Valley. Each of these groups lies within a comparatively narrow compass, the former on lands now owned by Wm. J. Shaw, and the latter on those owned by a Miss Pfeiffer.

To secure the whole of the former, or Heywood, group, it only needs the condemnation of a tract of land, nearly square, about four and a half acres in extent, with the addition of the requisite connecting strip which contains one and a half acres more; and to secure the whole of the latter, or Strawberry group, it requires the condemnation of five several tracts of land, each of small dimensions, embracing an aggregate of twenty seven and one hundred and forty eight thousandths (27.148) acres in extent, with the addition of the requisite connecting strip containing three and one hundred and seventy four thousandths (3.174) acres more. Thus the total quantity

of land which it is deemed by your Committee expedient to condemn, and which, in their judgment, is absolutely necessary for the present and future requirements of the University, amounts to thirty six and three hundred and twenty two thousandths (36.322) acres. From each of the two groups of springs aforesaid there flows an almost equal quantity of water, which may be estimated at a discharge, in midsummer when the hot season is at its dryest, of eighteen thousand gallons during each period of twenty four hours, or thirty six thousand gallons in the whole. For further details respecting the nature of these lands, and the surrounding country, the position and number of the separate springs together with the sizes, shapes and positions of the several tracts of land containing the said springs, reference is made to the annexed map or diagram. At a little distance in the rear of the University buildings, at a point indicated on the said map by the mark **F** in red ink, there is a natural formation of the soil which presents extraordinary facilities for the construction, at a very small expense, perhaps three thousand dollars, of a reservoir capable of containing one million gallons of water, and such an improvement your Committee thinks it important to be made at the earliest practicable opportunity.

Respecting the water easement claimed by the Regents and the aforesaid Heywood springs, it is proper to say that Mr. Shaw has already prepared a complaint in law for the assertion of his conflicting right to the enjoyment thereof, which complaint your Committee has submitted to the Counsel of this Board from whom an early opinion thereon may be expected, but inasmuch as the water from this source is almost indispensable for the uses of the University, and a legal controversy concerning the same would involve much time and expense while, on the other hand, the cost of condemning the necessary land to secure these springs would be comparatively small, from the limited quantity thereof required, your Committee recommend that such condemnation be made, as well to secure forthwith a positive and unquestionable right to the water, as to avoid the risk, delay, and cost of litigation.

And your Committee further report that, in their opinion, it is desirable that such tracts of land hereinbefore mentioned, as are required to secure the springs and waters of Strawberry Creek, to wit, the second group of springs above described, should be condemned for that purpose, and they therefore rec-

commend that immediate steps be taken for the condemnation of said tracts of land as well as those embracing the Heywood springs, and the aforesaid connecting strips of both respectively; and that the Attorney General be immediately requested by a resolution of this Board, to institute forthwith the necessary proceedings for the proper condemnation of said lands and springs to the uses of the University pursuant to the provisions of the Act of the Legislature in that behalf.

Respectfully submitted,

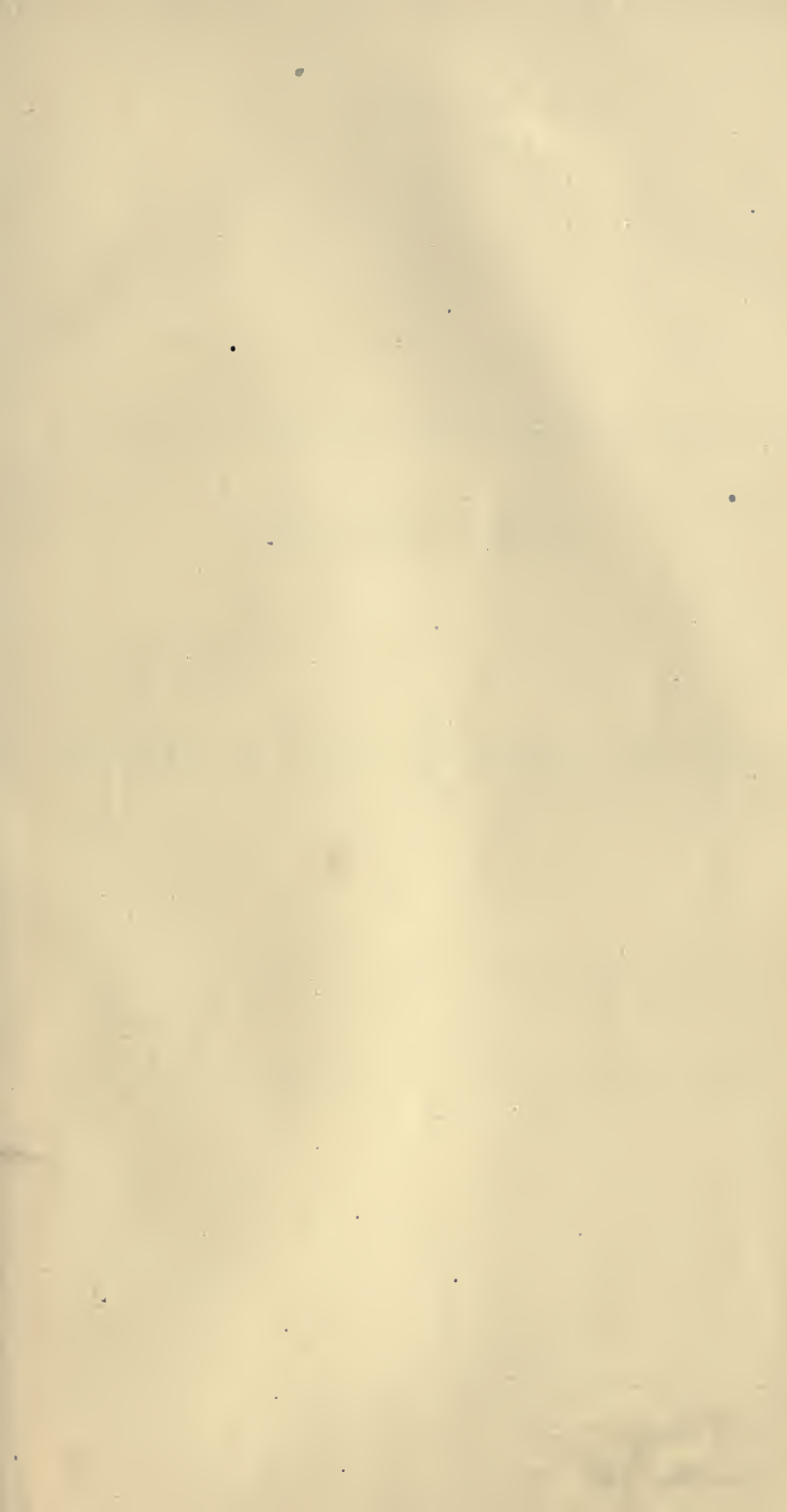
JOS. W. WINANS,

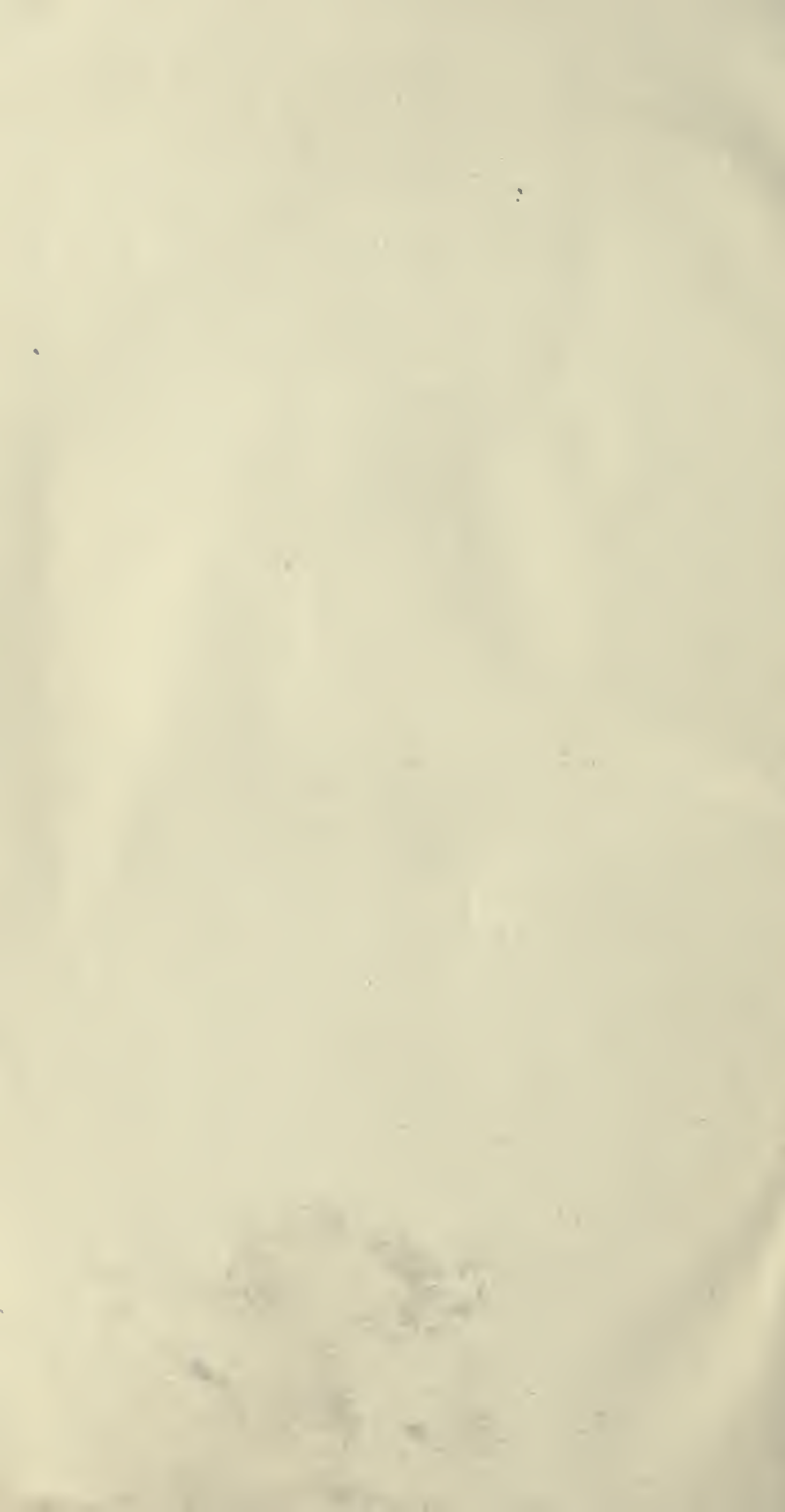
A. S. HALLIDIE,

JOHN LeCONTE.

Committee.

San Francisco, December 13th, 1877.







U. C. BERKELEY



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